

PUBLIC HEALTH REPORTS

VOLUME XXV

NUMBER 29

JULY 22, 1910



PUBLISHED WEEKLY BY THE
Public Health and Marine-Hospital Service
IN ACCORDANCE WITH ACT OF CONGRESS APPROVED
FEBRUARY 15, 1893



WASHINGTON
GOVERNMENT PRINTING OFFICE
1910

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PUBLIC HEALTH REPORTS.

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No. 29.

RAT SUPPRESSION IN SAN FRANCISCO, CAL.^a

By G. M. CONVERSE, Acting Assistant Surgeon, United States Public Health and Marine-Hospital Service.

The last case of human plague in San Francisco occurred two years and four months ago; the last case of rat plague was found eighteen months ago; all of the antiplague work done in San Francisco since that time has been therefore mostly in the nature of a prophylactic measure against reinfection.

The work being carried on at the present time has for its purpose, first, the destruction of rats and, second, the permanent rat proofing of such sections or premises as are shown to be centers of rat population.

DESTRUCTION OF RATS.

At the present time 30 laborers are employed exclusively as trappers; they are divided into 4 squads, each squad under the charge of a foreman who is responsible for their work. Each squad is housed in a different part of the city.

The city is divided into 60 sections, each trapper being allotted 2 sections. He attends the traps of these sections on alternate days.

The total number of traps actually placed and in constant use is close to 8,000, the number allotted each trapper varying with the topography of his sections.

Of numerous kinds of traps only two are practicable for extensive trapping operations. They are the cage trap and the snap trap. Of these, the snap is by far the easier to handle and can be placed almost anywhere, whereas the cage trap being much larger and liable to interference from persons living on the premises, can be used only where such interference is not apt to occur.

The result of trapping for one month (May, 1910) is shown in the following table:

Nature of premises trapped.	Number of such premises trapped.	Daily number of traps set.		Total rats trapped.
		Cage.	Snap.	
Sewers.....	559	552	89	1,588
Stables.....	216	139	586	811
Restaurants.....	226	117	751	995
Bakeries.....	21	11	56	40
Stores.....	670	308	1,894	2,140
Factories.....	85	85	314	319
Dwellings.....	649	205	1,247	987
Warehouses.....	50	92	258	240
Vacant lots.....	80	35	126	231
Water front.....	1	91	196	250
Steamers.....	41	59	139	288
Butchertown.....	39	59	259	662
Total rats trapped in May, 1910.....				8,561

^a Report dated June 8, 1910.

The amount of bait used during this period of one month was: Bacon, 312 pounds; cheese, 104 pounds; bread, 620 loaves. The bacon and cheese are used for the snap traps; the bread is cut into pieces in size about 2 inches cube and placed in the cage traps, it having been found by experience that for this trap the bread serves the purpose as well as the more expensive cheese and bacon.

Destruction of rats by poison is now limited to the distribution of poison in the sewers. It is not deemed safe at the present time to distribute poisoned bread about premises. During the month of May 27,452 pieces of poisoned bread were distributed on boards placed in the sewers.

PERMANENT RAT PROOFING.

A record of the location of each rat trapped is kept in a record book. These records are of use as evidence in proceedings of condemnation of premises.

As it is difficult by any system of book record to obtain an accurate knowledge of the distribution of the rat population of the city, the rat catch is shown graphically on a large map made especially for that purpose. The result of this graphic demonstration has been the location of three principal centers of rat infestation, as follows:

1. The wholesale fruit and produce section occupying from 15 to 20 square blocks in close proximity to the water front.
2. A triangular section of about 25 square blocks in the heart of the unburnt portion of the city, occupied mostly by Japanese population.
3. That section known as Butchertown.

Elsewhere in the city the rats are found scattered and almost inevitably in or close to premises containing much food, such as restaurants, bakeries, etc. During the actual epidemic work much of the wooden flooring covering basements and yards about the city was removed, but there still remains a considerable amount, and it is mostly about such premises that the rats harbor.

Wholesale fruit and produce section.—By request or by condemnation proceedings practically all of the buildings in the first or wholesale fruit and produce section have been under consideration. Many of the old shacks have been taken down and replaced by brick or concrete rat-proof buildings; the owners have rat-proofed the basements of others; there remain a small number of premises on which nothing has been done owing to the fact of expiring leases and for other reasons. However, sufficient work has been done in this particular section to diminish the density of the rat population very markedly. Thus, in a period of six months from June 1 to November 1, 1909, over 3,000 rats were trapped in this section; the succeeding six months furnished only about 750.

Japanese section.—The number of rats trapped in this section during the past twelve months was 5,205. The principal causes of rat infestation in this section are overcrowding, carelessness in the disposal of garbage and refuse, and the construction of flimsy wooden additions and wooden flooring in all available corners of the property.

The blocks in this section are being taken up one by one and, by request or condemnation proceedings, all wooden flooring is being removed and replaced by concrete. Thus in the period of six months just elapsed there have been removed (in this section alone) by

request 43,261 square feet of wooden flooring and 40,641 square feet of concrete have been laid; by condemnation proceedings 36,941 square feet of flooring have been removed and 32,710 square feet of concrete laid. Thus we have a total in this section of 80,202 square feet of rat-harboring wooden floors removed and 73,351 square feet of concrete laid.

The difference between the area of flooring removed and the area of concrete laid is accounted for by the fact that the law provides that open yards need not be concreted and that the earth may be left bare.

Butchertown.—This section is situated on the shore of the bay and is partially isolated from the main portion of the city by a marsh about 1 mile in width. It consists of a number of old wooden buildings elevated on piles above the soft mud bottom of the shore.

During the time of the epidemic the rat population under the slaughterhouses was enormous; in the wrecking of one of these nearly 2,000 rats were killed. Temporary rat proofing was carried out, but as the offal is thrown beneath the surface of the slaughterhouses on the tide land below and the rats find all the food they require they are still numerous, about 3,000 having been trapped in the few blocks covered by the slaughterhouses during the last six months. One of the large firms has just completed a new brick and concrete slaughterhouse, and it is hoped that the record of rats caught outside of this place and the proving of the fact that this method of construction will do away with them will make it possible to attack the problem as a whole.

While the work of permanently rat proofing the city is thus focused on certain locations, yet, wherever any building or group of premises shows a record of rats being constantly caught therein the premises are investigated and the necessary concrete is requested or obtained through condemnation proceedings. It is not to be hoped to rid a city constructed of wood of its rat population, but it may be possible to keep it mostly in the sewers or so scattered or so few in numbers that this condition alone would make a rapid transmission of plague infection improbable. This result would make it possible to limit any fresh plague infection to a circumscribed focus.

About the beginning of May the city authorities appointed inspectors to serve under the orders of the United States Public Health and Marine-Hospital Service, but paid out of city funds. With these inspectors it has been possible to begin a systematic reinspection of all premises in the city; the result of this reinspection at the present time seems to show that the people have learned a lesson of cleanliness. It is fully a year and a half since systematic inspection of premises has been possible, and in spite of that fact the reports from all sections as to cleanliness of premises and the proper disposal of refuse are very nearly as good to-day as they were then.

UNITED STATES.

REPORTS TO THE SURGEON-GENERAL, PUBLIC HEALTH AND MARINE-HOSPITAL SERVICE.

PLAGUE-PREVENTION WORK.

Infected Ground Squirrels.

The finding of 3 plague-infected ground squirrels in California was reported during the week ended July 2, 1910, as follows: In San Benito County, June 30, 1 squirrel; in San Joaquin County, June 29, 1 squirrel; in Santa Clara County, June 22, 1 squirrel.

Passed Assistant Surgeon McCoy reports:

Animals Examined for Plague Infection.

During the week ended July 2, 1910, there were examined at the federal laboratory at San Francisco and the branch laboratories at Oakland and Los Angeles, Cal., 5,574 rodents, as follows: Squirrels, 3,413; gophers, 8; rabbits, 8; rats, 2,145. The rats included *Mus norvegicus*, 1,755; *Mus rattus*, 63; *Mus musculus*, 269; *Mus alexandrinus*, 58. Three of the squirrels were found to be infected with plague.

SAN FRANCISCO, CAL.

Last case of human plague sickened January 30, 1908. Last case of rodent plague trapped October 23, 1908. Total number of rats found infected to date, 398.

Week ended July 2, 1910. Premises inspected, 1,153. Houses destroyed, 10. Buildings condemned, 7. Nuisances abated, 131. Poisons placed, 6,330. Rats trapped, 1,958. Rats found dead, 41. Gophers trapped, 14. Rats identified, 1,999, as follows: *Mus norvegicus*, 1,468; *Mus rattus*, 111; *Mus musculus*, 337; *Mus alexandrinus*, 83. Average number of traps set daily, 7,554. Examined bacteriologically, 1,431 rats and 8 gophers. No plague infection found.

BERKELEY, CAL.

There is no record of rodent plague in Berkeley. The last case of human plague sickened August 28, 1907.

Week ended July 2, 1910. Rats trapped, 151. Rats identified, 151, as follows: *Mus norvegicus*, 131; *Mus musculus*, 20. Rats examined bacteriologically, 131. No plague-infected rats found.

OAKLAND, CAL.

Last case of human plague sickened October 26, 1909. Last case of rodent plague found December 1, 1908.

Week ended July 2, 1910. Rats found dead, 29. Rats trapped, 666. Rats identified, 695, as follows: *Mus norvegicus*, 581; *Mus rattus*, 2; *Mus musculus*, 112. Examined bacteriologically, 583. No plague infection found.

ALAMEDA COUNTY, CAL. (Exclusive of the city of Oakland.)

Last case of human plague sickened 2 miles southwest of Sunol September 26, 1909. Last case of rodent plague found May 30, 1910. To the present time 81 ground squirrels and 1 wood rat have been found infected.

Week ended July 2, 1910. Ranches inspected, 10. Ground squirrels shot, 175. Ground squirrels found dead, 103. Rabbits shot, 8. Acres covered with poison, 490. Examined bacteriologically, 278 squirrels and 8 rabbits. No plague infection found.

CONTRA COSTA COUNTY, CAL.

Last case of human plague sickened July 21, 1908. Last plague-infected rodent found June 1, 1910. Total number of ground squirrels found infected to date, 243.

Week ended July 2, 1910. Ranches inspected, 13. Ground squirrels shot, 135. Ground squirrels examined bacteriologically, 116. No plague-infected squirrels found.

LOS ANGELES COUNTY, CAL.

Last case of human plague sickened August 11, 1908. Last plague-infected rodent was found August 21, 1908.

Week ended July 2, 1910. Ranches inspected, 10. Ground squirrels shot, 525. Ground squirrels found dead, 4. Ground squirrels examined bacteriologically, 529. No plague-infected squirrels found.

MERCED COUNTY, CAL.

There is no record of human plague in Merced County. The last plague-infected rodent was found June 6, 1910. Total number of ground squirrels found infected to date, 2.

Week ended July 2, 1910. Ranches inspected, 23. Ground squirrels shot, 281. Ground squirrels found dead, 16. Ground squirrels examined bacteriologically, 277. No plague-infected squirrels found.

MONTEREY COUNTY, CAL.

There is no record of human plague in Monterey County. The last plague-infected rodent was found June 6, 1910. Total number of ground squirrels found infected to date, 4.

Week ended July 2, 1910. Ranches inspected, 17. Ground squirrels shot, 691. Ground squirrels examined bacteriologically, 645. No plague-infected squirrels found.

ORANGE COUNTY, CAL.

There is no record of human or rodent plague in Orange County.

Week ended July 2, 1910. Ranches inspected, 11. Ground squirrels shot, 141. Ground squirrels examined bacteriologically, 141. No plague-infected squirrels found.

RIVERSIDE COUNTY, CAL.

There is no record of human or rodent plague in Riverside County.

Week ended July 2, 1910. Ranches inspected, 17. Ground squirrels shot, 70. Ground squirrels found dead, 56. Ground squirrels examined bacteriologically, 126. No plague-infected squirrels found.

SAN BENITO COUNTY, CAL.

Last case of human plague sickened June 5, 1910. Last plague-infected rodent found June 30, 1910. Total number of ground squirrels found infected to date, 16.

Week ended July 2, 1910. Ranches inspected, 19. Ground squirrels shot, 303. Ground squirrels found dead, 5. Ground squirrels examined bacteriologically, 308. One plague-infected squirrel found.

The plague-infected squirrel was found June 30 at Wapple Ranch, 9 miles east of Paicines (secs. 4 and 6, T. 14 S., R. 7 E.).

SAN BERNARDINO COUNTY, CAL.

There is no record of human or rodent plague in San Bernardino County.

Week ended July 2, 1910. Ranches inspected, 6. Ground squirrels shot, 98; found dead, 1. Ground squirrels examined bacteriologically, 98. No plague-infected squirrels found.

SAN JOAQUIN COUNTY, CAL.

There is no record of human plague in San Joaquin County. The last plague-infected rodent was found June 29, 1910. Total number of plague-infected ground squirrels found to date, 4.

Week ended July 2, 1910. Ranches inspected, 14. Ground squirrels shot, 186. Ground squirrels examined bacteriologically, 174. One plague-infected squirrel found.

The plague-infected squirrel was found June 29 at Fink's ranch, 6 miles northeast of Tracy (T. 2 S., R. 6. E.).

SAN LUIS OBISPO COUNTY, CAL.

There is no record of human plague in San Luis Obispo County. A plague-infected rodent was found January 29, 1910.

Week ended July 2, 1910. Ranches inspected, 18. Ground squirrels shot, 369. Ground squirrels examined bacteriologically, 347. No plague-infected squirrels found.

SANTA CLARA COUNTY, CAL.

There is no record of human plague in Santa Clara County. The last case of rodent plague was found June 22, 1910. Total number of ground squirrels found infected to date, 22.

Week ended July 2, 1910. Ranches inspected, 2. Ground squirrels shot, 356. Ground squirrels examined bacteriologically, 334. One plague-infected squirrel found.

The plague-infected squirrel was found June 22 at Morrison ranch, Edenvale (Santa Teresa Rancho).

STANISLAUS COUNTY, CAL.

There is no record of human plague in Stanislaus County. The last plague-infected rodent was found May 21, 1910. Total number of ground squirrels found infected to date, 5.

Week ended July 2, 1910. Ranches inspected, 2. Ground squirrels shot, 40. Weasels shot, 1. Ground squirrels examined bacteriologically, 40. No plague-infected squirrels found.

Assistant Surgeon Chapin reports:

SEATTLE, WASH.

No case of human plague since October 30, 1907. The last plague-infected rodent was found February 8, 1910. Total number of plague-infected rats found to date, 22.

Week ended June 25, 1910. Rats received, 905. Rats necropsied, 736. No plague infection found.

Week ended July 2, 1910. Rats received, 918. Rats necropsied, 716. No plague-infected rats found.

SMALLPOX IN THE UNITED STATES.

Reports Received During Week Ended July 22, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Birmingham.....	July 4-10.....	4		
Mobile.....	June 26-July 2....	3		
Colorado:				
Alamosa County.....	Apr. 1-30.....		1	
Las Animas County.....	Mar. 1-Apr. 30....		2	
Logan County.....	May 1-31.....		1	
Montrose County.....	Apr. 1-30.....		1	
District of Columbia.....	July 3-9.....	1		
Georgia:				
Columbus.....	July 3-9.....	6		
Macon.....	Apr. 1-30.....	4		
	June 1-30.....	4		
Iowa:				
Benton County.....	June 1-30.....	2		
Buchanan County.....	June 1-30.....	2		
Clayton County.....	June 1-30.....	1		
Dallas County.....	June 1-30.....	1		
Delaware County.....	June 1-30.....	10		
Dubuque County.....	June 1-30.....	1		
Linn County.....	June 1-30.....	25		
Polk County.....	June 1-30.....	13		
Pottawattamie County.....	June 1-30.....	16		
Scott County.....	June 1-30.....	3		
Winneshiek County.....	June 1-30.....	1		
Woodbury County.....	June 1-30.....	1		
Louisiana:				
Avoyelles Parish.....	June 1-30.....	12		
Calcasieu Parish.....	June 1-30.....	2		
Iberia Parish.....	June 1-30.....	19		
Orleans Parish.....	June 1-30.....			
New Orleans.....	July 3-9.....	9		
St. John Parish.....	June 1-30.....	10		
St. Tammany Parish.....	June 1-30.....	2		
Tangipahoa Parish.....	June 1-30.....	25		
Vermilion Parish.....	June 1-30.....	30		
Maryland, entire State.....	June 1-30.....	None.	None.	
Minnesota, general.....	Mar. 1-31.....		1	
Missouri:				
Kansas City.....	May 15-June 25....	24		
Montana:				
Custer County.....	Apr. 1-30.....		1	
Ohio:				
Allen County.....	June 1-30.....	3		
Butler County.....	June 1-30.....	1		
Clinton County.....	June 1-30.....	10		
Columbiana County.....	June 1-30.....	3		
Cuyahoga County.....	June 1-30.....	9		
Fairfield County.....	June 1-30.....	1		
Franklin County.....	June 1-30.....	4		
Hamilton County.....	June 1-30.....	1		
Hocking County.....	June 1-30.....	25		
Lucas County.....	June 1-30.....	2		
Perry County.....	June 1-30.....	1		
Pickaway County.....	June 1-30.....	1		
Portage County.....	June 1-30.....	7		
Ross County.....	June 1-30.....	66		
Scioto County.....	June 1-30.....	2		
Stark County.....	June 1-30.....	28		
Wayne County.....	June 1-30.....	2		
Wood County.....	June 1-30.....	2		
New Jersey:				
Cumberland County.....	June 1-30.....	2		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received During Week Ended July 22, 1910—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Tennessee:				
Benton County—				
Camden.....	July 1-7.....	2		
Davidson County—				
Nashville.....	July 3-9.....	1		
Texas:				
Fort Worth.....	June 1-30.....	10		
Utah:				Report received out of date.
Boxelder County.....	Mar. 1-31.....	1		
Cache County.....	Mar. 1-31.....	1		
Davis County.....	Mar. 1-31.....	6		
Iron County.....	Mar. 1-31.....	17		
Salt Lake County.....	Mar. 1-31.....	43		
San Pete County.....	Mar. 1-31.....	6		
Summit County.....	Mar. 1-31.....	5		
Uintah County.....	Mar. 1-31.....	5		
Utah County.....	Mar. 1-31.....	16		
Wasatch County.....	Mar. 1-31.....	8		
Weber County.....	Mar. 1-31.....	4		

Reports Received from June 25 to July 15, 1910.

[For reports received from January 1, 1910, to June 24, 1910, see Public Health Reports for June 24, 1910. In accordance with custom the tables of epidemic diseases are terminated semiannually and new tables begun.]

Place.	Date.	Cases.	Deaths.	Remarks.
Alabama:				
Birmingham.....	June 12-18.....	2		
Mobile.....	June 12-18.....	8		
Montgomery.....	June 12-25.....	6		
Total for State.....		16		
Arkansas:				
Fort Smith.....	June 19-25.....	1		
California; general.....	May 1-31.....	17		Five additional cases were previously reported.
Colorado:				
Archuleta County.....	June 1-30.....	7		
Conejos County.....	June 1-30.....	2		
Delta County.....	June 1-30.....	2		
Denver County.....	June 1-30.....	9		
Huerfano County.....	June 1-30.....	10		
Kit Carson County.....	June 1-30.....	4		
Larimer County.....	June 1-30.....	1		
Las Animas County.....	June 1-30.....	3		
Logan County.....	June 1-30.....	1		
Mesa County.....	June 1-30.....	1		
Montrose County.....	June 1-30.....	5		
Otero County.....	June 1-30.....	4		
Prowers County.....	June 1-30.....	7		
Rio Grande County.....	June 1-30.....	4		
Saguache County.....	June 1-30.....	1		
San Miguel County.....	June 1-30.....	1		
Teller County.....	June 1-30.....	1		
Weld County.....	June 1-30.....	5		
Total for State.....		68		
Florida:				
Duval County.....	June 19-25.....	2		
Jackson County.....	June 19-25.....	2		
Walton County.....	June 12-18.....	1		
Total for State.....		5		
Kansas:				
Allen County.....	May 1-31.....	7		
Atchison County—				
Atchison.....	Apr. 1-May 31.....	7		
Butler County.....	Apr. 1-May 31.....	6		
Cowley County.....	Apr. 1-May 31.....	10		
Decatur County.....	Apr. 1-May 31.....	4		
Dickinson County.....	May 1-31.....	6		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to July 15, 1910—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Kansas—Continued.				
Doniphan County.....	Apr. 1-30.....	10		
Edwards County.....	Apr. 1-May 31....	3		
Elk County.....	May 1-31.....	2		
Ellsworth County.....	Apr. 1-30.....	1		
Finney County.....	Apr. 1-30.....	2		
Graham County.....	Apr. 1-May 31....	6		
Greenwood County.....	Apr. 1-May 31....	46		
Harper County.....	May 1-31.....	1		
Harvey County.....	Apr. 1-May 31....	5		
Jewell County.....	May 1-31.....	15		
Kearny County.....	Apr. 1-May 31....	5		
Kingman County.....	Apr. 1-May 31....	3		
Labette County—				
Parsons.....	Apr. 1-May 31....	9		
Lane County.....	May 1-31.....	2		
Leavenworth County.....	Apr. 1-May 31....	8		
Leavenworth.....	May 1-31.....	1		
McPherson County.....	May 1-31.....	10		
Miami County.....	Apr. 1-May 31....	2		
Montgomery County.....	Apr. 1-May 31....	41	1	
Coffeyville.....	Apr. 1-May 31....	9		
Neosho County.....	May 1-31.....	15		
Norton County.....	Apr. 1-May 31....	40		
Osage County.....	Apr. 1-May 31....	6		
Osborne County.....	Apr. 1-May 31....	27		
Pawnee County.....	Apr. 1-30.....	3		
Philipps County.....	May 1-31.....	6		
Reno County.....	Apr. 1-30.....	15		
Riley County.....	Apr. 1-May 31....	5		
Rush County.....	Apr. 1-30.....	3		
Saline County.....	Apr. 1-May 31....	16		
Scott County.....	Apr. 1-May 31....	5		
Sedgwick County.....	Apr. 1-May 31....	7		
Wehita.....	Apr. 1-May 31....	35		
Seward County.....	May 1-31.....	2		
Sheridan County.....	Apr. 1-30.....	1		
Sherman County.....	May 1-31.....	1		
Sumner County.....	May 1-31.....	4		
Thomas County.....	Apr. 1-May 31....	2	1	
Wyandotte County.....	Apr. 1-30.....	4		
Kansas City.....	Apr. 1-May 31....	34		
Total for State.....		452	2	
Kentucky:				
Covington.....	June 26-July 2....	1		
Total for State.....		1		
Louisiana:				
New Orleans.....	June 12-July 2....	32		
Total for State.....		32		
Maine:				
Biddeford.....	May 1-31.....	1		
Total for State.....		1		
Maryland:				
Allegany County—				
Cumberland.....	May 1-31.....	1		
Total for State.....		1		
Massachusetts:				
Suffolk County.....	June 1-30.....	7		
Total for State.....		7		
Michigan:				
Alcona County.....	June 1-30.....	1		
Arenac County.....	June 1-30.....	2		
Bay County.....	June 1-30.....	5	1	
Cheboygan County.....	June 1-30.....	15		
Clare County.....	June 1-30.....	11		
Eaton County.....	June 1-30.....	7		
Genesee County.....	June 1-30.....	21		
Gratiot County.....	June 1-30.....	2		

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to July 15, 1910—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Michigan—Continued.				
Houghton County.....	June 1-30.....	3		
Huron County.....	June 1-30.....	11		
Ingham County.....	June 1-30.....	2		
Ionia County.....	June 1-30.....	5		
Isabella County.....	June 1-30.....	2		
Kalamazoo County.....	June 1-30.....	4		
Kent County.....	June 1-30.....	17		
Lapeer County.....	June 1-30.....	12		
Livingston County.....	June 1-30.....	17		
Manistee County.....	June 1-30.....	8		
Marquette County.....	June 1-30.....	1		
Mason County.....	June 1-30.....	9		
Mecosta County.....	June 1-30.....	6		
Midland County.....	June 1-30.....	9		
Missaukee County.....	June 1-30.....	10		
Monroe County.....	June 1-30.....	2		
Muskegon County.....	June 1-30.....	2		
Newaygo County.....	June 1-30.....	2		
Osceola County.....	June 1-30.....	1		
Ottawa County.....	June 1-30.....	1		
Rosecommon County.....	June 1-30.....	4		
Saginaw County.....	June 1-30.....	30		
St. Clair County.....	June 1-30.....	28		
Sanilac County.....	June 1-30.....	2		
Shiawassee County.....	June 1-30.....	42		
Tuscola County.....	June 1-30.....	8		
Wayne County.....	June 1-30.....	10		
Total for State.....		312	1	
Missouri:				
Kansas City.....	May 15-31.....	13		
St. Louis.....	June 12-25.....	8		
Savannah.....	June 26-July 2.....	5		
Total for State.....		26		
Nebraska:				
Lincoln.....	Apr. 1-30.....	10		
	May 1-31.....	13		
South Omaha.....	June 1-30.....	3		
Total for State.....		26		
New York:				
Erie County—				
Buffalo.....	May 1-31.....	1		
Tonawanda Township.....	May 1-31.....	2		
Niagara County—				
Niagara Falls.....	May 1-31.....	1		
North Tonawanda.....	May 1-31.....	1		
St. Lawrence County.....	May 1-31.....	19		
Schenectady County.....	May 1-31.....	2		
Total for State.....		26		
North Carolina:				
Forsyth County.....	Feb. 1-28.....		1	
Rowan County.....	Feb. 1-28.....		1	
Alamance County.....	Mar. 1-May 31.....	36		
Alexander County.....	Mar. 1-May 31.....	48		
Anson County.....	Apr. 1-May 31.....	2		
Ashe County.....	Mar. 1-31.....	12		
Beaufort County.....	Mar. 1-31.....	4		
Bladen County.....	Apr. 1-May 31.....	16		
Cabarrus County.....	Mar. 1-May 31.....	12		
Caldwell County.....	Mar. 1-May 31.....	9	1	
Catawba County.....	Mar. 1-May 31.....	38		
Chatham County.....	Mar. 1-Apr. 30.....	3		
Chowan County.....	Mar. 1-31.....	3		
Columbus County.....	Apr. 1-May 31.....	23		
Craven County.....	Mar. 1-31.....	1		
Currituck County.....	Mar. 1-May 31.....	17		
Davidson County.....	Mar. 1-31.....	2		
Davie County.....	Mar. 1-31.....	8		
Durham County.....	Mar. 1-May 31.....	18		
Forsyth County.....	Mar. 1-May 31.....	17		
Franklin County.....	Mar. 1-31.....	5		
Gaston County.....	Mar. 1-May 31.....	12	2	

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to July 15, 1910—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
North Carolina—Continued.				
Graham County.....	Mar. 1-Apr. 30.....	8	.....
Greene County.....	Mar. 1-Apr. 30.....	19	.....
Gulford County.....	Mar. 1-May 31.....	44	.....
Halifax County.....	Mar. 1-31.....	40	.....
Henderson County.....	May 1-31.....	4	.....
Hertford County.....	Mar. 1-31.....	1	.....
Iredell County.....	May 1-31.....	.....	.....	Several.
Johnston County.....	Apr. 1-May 31.....	4	.....	Several in March.
Jones County.....	Mar. 1-31.....	1	.....
Lee County.....	Mar. 1-31.....	5	.....
Lenoir County.....	Mar. 1-May 31.....	11	.....
Lincoln County.....	Mar. 1-May 31.....	2	.....
Madison County.....	Apr. 1-30.....	5	.....
Martin County.....	Apr. 1-May 31.....	4	.....
Mecklenburg County.....	Mar. 1-May 31.....	15	.....
Montgomery County.....	Mar. 1-May 31.....	47	.....
Nash County.....	Mar. 1-May 31.....	50	.....
New Hanover County.....	Mar. 1-May 31.....	12	.....
Onslow County.....	Mar. 1-May 31.....	5	.....
Orange County.....	Mar. 1-May 31.....	32	.....
Pamlico County.....	Mar. 1-31.....	2	.....
Perquimans County.....	May 1-31.....	1	.....
Person County.....	May 1-31.....	1	.....
Pitt County.....	Mar. 1-May 31.....	23	.....
Polk County.....	Mar. 1-31.....	7	.....
Richmond County.....	Apr. 1-30.....	2	.....
Robeson County.....	Apr. 1-May 31.....	3	.....
Rockingham County.....	Mar. 1-31.....	48	.....
Rowan County.....	Mar. 1-May 31.....	32	1	
Sampson County.....	May 1-31.....	2	.....
Scotland County.....	May 1-31.....	5	.....
Stanly County.....	Apr. 1-May 31.....	20	.....
Stokes County.....	Mar. 1-31.....	64	.....
Surry County.....	Mar. 1-31.....	4	.....
Union County.....	Mar. 1-May 31.....	25	.....
Vance County.....	Apr. 1-30.....	4	.....
Wake County.....	Apr. 1-May 31.....	22	.....
Warren County.....	Apr. 1-30.....	20	.....
Washington County.....	Mar. 1-Apr. 30.....	4	.....
Watauga County.....	Apr. 1-May 31.....	20	.....
Wayne County.....	Apr. 1-May 31.....	6	.....
Wilkes County.....	Mar. 1-May 31.....	35	.....
Wilson County.....	Mar. 1-May 31.....	24	1	
Yancey County.....	Mar. 1-31.....	26	.....
Total for State.....		995	7	
North Dakota:				
Cass County.....	June 1-30.....	2	.....
Cavalier County.....	June 1-30.....	1	.....
Grand Forks County.....	June 1-30.....	4	.....
Logan County.....	June 1-30.....	1	.....
McKenzie County.....	June 1-30.....	1	.....
Pierce County.....	June 1-30.....	1	.....
Trall County.....	June 1-30.....	6	.....
Ward County.....	June 1-30.....	4	.....
Total for State.....		20	.....
Pennsylvania, general.				
	Apr. 1-30.....	.....	2	
	May 1-31.....	22	.....
Total for State.....		22	2	
South Carolina:				
Charleston.....	June 1-30.....	16	.....
Total for State.....		16	.....
Tennessee:				
Davidson County—				
Nashville.....	June 12-18.....	1	.....
Hampton County—				
Chattanooga.....	June 12-July 2.....	3	.....
Knox County—				
Knoxville.....	June 12-July 2.....	4	.....
Shelby County—				
Memphis.....	June 12-July 2.....	6	.....
Total for State.....		14	.....

SMALLPOX IN THE UNITED STATES—Continued.

Reports Received from June 25 to July 15, 1910—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Texas, general.....	Apr. 1-31.....		2	
San Antonio.....	May 1-31.....	5		
Total for State.....		5	2	
Utah:				
Boxelder County.....	May 1-31.....	1		
Cache County.....	May 1-31.....	6		
Davis County.....	May 1-31.....	17		
Salt Lake County.....	May 1-31.....	21		
Utah County.....	May 1-31.....	1		
Weber County.....	May 1-31.....	18		
Total for State.....		64		
Virginia:				
Lynchburg.....	June 12-18.....	1		
Total for State.....		1		
Wisconsin:				
Ashland County.....	June 1-30.....	13		
Barron County.....	June 1-30.....	1		
Douglas County.....	June 1-30.....	2		
Eau Claire County.....	June 1-30.....	3		
Florence County.....	June 1-30.....	4		
La Fayette County.....	June 1-30.....	1		
La Crosse County.....	June 1-30.....	2		
Rusk County.....	June 1-30.....	1		
Sawyer County.....	June 1-30.....	8		
Waupaca County.....	June 1-30.....	2		
Total for State.....		37		
Grand total for the United States.....		2,165	14	

PLAGUE IN THE UNITED STATES.

Reports Received from June 25 to July 15, 1910.

Place.	Date.	Cases.	Deaths.	Remarks.
California:				
San Benito County—Hollister.....	June 5-11.....	1	1	

MORBIDITY AND MORTALITY.

WEEKLY MORBIDITY AND MORTALITY TABLE, CITIES OF THE UNITED STATES.

[For smallpox and plague see special tables.]

Cities.	Week ended—	Estimated population, 1910.	Total deaths from all causes.	Tuberculosis.		Typhoid fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Altoona, Pa.....	July 9	51,782	10	3	1					1	1				
Ann Arbor, Mich....	July 2	14,734	3	2								4			
Do.....	July 9		11	1											
Ashtabula, Ohio.....	July 2	17,060	5												
Do.....	July 9		4	1											
Auburn, N. Y.....	June 25	34,709	8	2				4		1				3	
Do.....	July 2		7		1			2				2			

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Esti- mated popu- lation, 1910.	Total deaths from all causes.	Tuber- culosis.		Ty- phoid fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Baltimore, Md.	July 9	583,475	211	41	31	10		11	2	1		8		7	
Bayonne, N. J.	do.	51,802		2				1		3		1		3	
Beaver Falls, Pa.	do.	10,373													
Berkeley, Cal.	June 25		10												
Do.	July 2		10	1	1										
Biddeford, Me.	July 9	17,847	4					3		5					
Binghamton, N. Y.	do.	46,545	15		2			1		1	1	6		2	
Birmingham, Ala.	July 10	55,945	49	10	8	13	2					4		1	
Boston, Mass.	July 9	629,868	220	65	20	5	2	16	2	45	4	98	2	9	1
Braddock, Pa.	July 2	21,594	10		1					2		4			
Do.	July 9		11		1							7			
Bridgeport, Conn.	do.	93,126	38		2			4		1					
Brookton, Mass.	do.	55,525	15	3	1	4				2					
Cambridge, Mass.	do.	102,982	26	4	5	1		2		6		8			
Cambridge, Ohio.	do.	12,121	4												
Camden, N. J.	do.	90,791								2					
Canton, Ohio.	do.	40,570	15	1	1										
Carbondale, Pa.	do.	15,939	7							1					
Carlisle, Pa.	July 2		6	2	1	1									
Do.	July 9		3												
Charlotte, N. C.	do.	36,320	12			7	2								
Chattanooga, Tenn.	July 9	34,773		1											
Chelsea, Mass.	do.	40,506	5	2				1				4			
Chicago, Ill.	do.	2,282,927	581	93	59	18	5	72	7	82	9	173	4	42	4
Chicopee, Mass.	do.	21,225	18			1				1		1			
Cincinnati, Ohio.	July 11	333,108	120	25	19	1		4		1		8			
Cleveland, Ohio.	July 8	522,475	160	23	14	4		14		10	1	21		13	
Clinton, Mass.	July 9	12,543	3												
Columbus, Ga.	do.	17,925	6		1										
Columbus, Ohio.	do.	158,649	59	4	8			3				10	1	4	
Concord, N. H.	July 2	22,260	8												
Do.	July 9		8							1					
Covington, Ky.	do.	52,325	13		3							4			
Danville, Ill.	do.	28,413	8												
Dayton, Ohio.	do.	111,889	42	7	7	1						6		1	
Duluth, Minn.	do.	76,915	21	3		1		2		2		11		1	1
Elizabeth, N. J.	do.	69,154	23		3			5		2					
Elmira, N. Y.	do.	35,776	9												
El Paso, Tex.	do.	23,565	26	11	3					1		5	2	4	
Evansville, Ind.	do.	67,782	17	3		3						32		6	
Everett, Mass.	do.	33,886	4							1		2			
Fall River, Mass.	do.	106,661	79	1	7			2		1		9	2		
Fort Wayne, Ind.	June 18	56,661	17	1	2			8		1					
Do.	June 25		14		1			6	1			3			
Do.	July 2		12		3					1		2			
Freeport, Ill.	July 9	22,687	5												
Galesburg, Ill.	do.	21,950	3					1							
Gloucester, Mass.	do.	25,501	3												
Grand Rapids, Mich.	do.	107,948	24		2			4				11			
Greensboro, N. C.	July 9	16,753	5		1	2	1								
Hartford, Conn.	do.	106,470	34		2			3		1	3	10	3	1	
Harrison, N. J.	do.	15,050	5					1							
Haverhill, Mass.	do.	38,485	6	1						2		7			
Hoboken, N. J.	do.					1	1	1						3	
Hyde Park, Mass.	do.	15,776	9		2					1		2			
Jacksonville, Fla.	do.	42,173	15	1		13	1								1
Jersey City, N. J.	do.	258,965	106		10		1	14		7		17			
Johnstown, Pa.	do.	47,745	26		1		1	3				6			
Kalamazoo, Mich.	do.		8							1		10		2	
Kansas City, Kans.	do.	81,052	39		3	4	1								
Kansas City, Mo.	May 21	698,706	67		7	1	1	16	1	6	2	17	3		
Do.	May 28		54	5	9	4	1	16		7		18	1	3	
Do.	June 4		72	1	12	4	1	16	1	7		18	1	3	
Do.	June 11		69			1		11		3		16		3	
Do.	June 18		58	1	8			2	8	5		5			1
Do.	June 25		64		6			1	8	1	2	7	1		
Kearney, N. J.	July 9	16,306	10	3											
Kingston, N. Y.	June 25	26,285	10		1			1							
Do.	July 2		10		2			1		1		2			
Do.	July 9		3		1										
Knoxville, Tenn.	do.	38,328	14		1	1	1			1					
La Crosse, Wis.	do.	29,261	5	1	1			3				1			
La Fayette, Ind.	do.	19,989	4												

MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Esti- mated popula- tion, 1910.	Total deaths from all causes.	Tuber- culosis.		Ty- phoid fever.		Scarlet fever.		Diph- theria.		Measles.		Whoop- ing cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Lancaster, Pa.	July 9	50,907	9	3	2	1	5	3	1	14	3				
Lawrence, Mass.	do.	77,541	35	2	2	1	5	1	3						
Lebanon, Pa.	do.	20,592	10	1	1	1	1	1	3						
Lexington, Ky.	do.	31,171	16	1	1	1	1	1	3						
Los Angeles, Cal.	July 2	79	11	13	5	1	8	4	2	8	5	3	1		
Lowell, Mass.	July 9	95,109	49	1	1	5	1	1	1	3	1	27	7		
Lynchburg, Va.	do.	30,064	12	1	4	1	1	2	1	40	8				
Lynn, Mass.	do.	85,571	7	1	1	1	1	1	1						
Malden, Mass.	do.	42,410	19	2	2	1	1	1	1						
Manchester, N. H.	do.	69,848	10	400	1	1	2	1	1						
Manistee, Mich.	do.	21,807	3	1	1	1	2	1	1						
Mansfield, Ohio.	do.	13,680	3	1	1	1	1	1	1						
Manitowoc, Wis.	June 26	13,680	3	1	1	1	1	1	1						
Do.	July 2		2	1	1	1	1	1	1						
Do.	July 9		3	1	1	1	1	1	1						
Do.	do.		3	1	1	1	1	1	1						
Massillon, Ohio.	do.	13,796	7	1	1	1	1	1	1						
Medford, Mass.	do.	21,128	2	2	2	2	2	2	2						
Melrose, Mass.	do.	15,628	2	2	2	2	2	2	2						
Milwaukee, Wis.	do.	337,117	93	22	6	29	2	32	1	20	1	41	2	13	1
Mobile, Ala.	July 2	56,335	19	4	3	3	3	3	3						
Moline, Ill.	July 9	23,576	6	1	1	1	1	1	1						
Montclair, N. J.	do.	18,778	9	3	3	3	3	3	3						
Montgomery, Ala.	do.	44,967	18	2	3	3	3	3	3						
Morristown, N. J.	do.	13,025	1	1	1	1	1	1	1						
Nanticoke, Pa.	do.	14,188	7	1	1	1	1	1	1						
Nashville, Tenn.	do.	107,076	37	3	1	6	3	3	3						
Newark, N. J.	do.	315,014	117	8	22	3	1	19	2	13					
New Bedford, Mass.	do.	86,282	50	2	3	7	5	5	4						
Newburyport, Mass.	do.	14,872	3	32	26	5	3	6	3						
New Orleans, La.	do.	332,169	144	32	26	5	3	6	3						
Newport, Ky.	July 2	31,308	7	1	1	1	1	1	1						
Do.	July 9		11	2	2	2	2	2	2						
Newton, Mass.	do.	40,067	2	1	1	1	1	1	1						
New York, N. Y.	do.	4,563,604	1,472	453	149	50	10	174	14	408	36	433	13	48	15
Niagara Falls, N. Y.	do.	33,407	7	1	1	1	1	1	1						
Norristown, Pa.	June 25	24,739	9	1	1	1	1	1	1						
Do.	July 2		9	1	1	1	1	1	1						
Do.	July 9		14	3	1	2	1	1	1						
North Adams, Mass.	do.	20,100	7	1	1	1	1	1	1						
Northampton, Mass.	do.	21,146	4	1	1	1	1	1	1						
Orange, N. J.	do.	28,061	8	2	2	2	2	2	2						
Ottumwa, Iowa.	do.	22,015	8	1	1	1	1	1	1						
Paducah, Ky.	do.		10	2	2	2	2	2	2						
Palmer, Mass.	do.		3	2	2	2	2	2	2						
Peekskill, N. Y.	do.	16,042	5	2	2	2	2	2	2						
Philadelphia, Pa.	do.	1,540,430	83	44	16	3	20	52	7	82	3	56	11		
Pittsburg, Pa.	do.	570,065	206	17	8	1	23	2	12	3	69	3	10		
Pittsfield, Mass.	July 10	28,236	13	2	2	2	2	2	2						
Plainfield, N. J.	July 9	21,567	2	1	1	1	1	1	1						
Plymouth, Pa.	July 2	17,954	1	1	1	1	1	1	1						
Portsmouth, N. H.	July 9														
Portsmouth, Va.	do.	28,225	10	1	1	1	1	1	1						
Pottstown, Pa.	do.	14,065	5	1	1	1	1	1	1						
Providence, R. I.	do.	221,673	90	23	11	3	1	1	8	11	2	19	1		
Reading, Pa.	July 11	99,261	28	2	4	4	4	4	4						
Rockford, Ill.	July 9	38,651	4	1	1	1	1	1	1						
Rock Island, Ill.	do.	25,352	15	1	2	5	8	1	1						
Sacramento, Cal.	July 2	32,178	18	4	3	1	1	1	1						
Salt Lake, Utah.	do.	65,464	6	6	2	1	1	1	1						
San Antonio, Tex.	do.	68,969	7	10	11	1	7	3	3						
Do.	July 9		26	10	11	1	7	3	3						
San Francisco, Cal.	July 2		5	2	1	3	3	3	3						
Saratoga Springs, N. Y.	do.		8	2	1	3	3	3	3						
Do.	July 9		38	1	1	1	3	3	3						
Seattle, Wash.	July 2		18	1	1	1	3	3	3						
Somerville, Mass.	July 9	76,901	6	4	2	1	1	1	1						
South Bend, Ind.	do.	50,741	8	2	1	1	1	1	1						
South Bethlehem, Pa.	do.	16,180	27	2	1	1	1	1	1						
Spokane, Wash.	June 18		28	3	3	3	3	3	3						
Do.	June 25		25	3	3	3	3	3	3						
Do.	July 2		25	3	3	3	3	3	3						

MORBIDITY AND MORTALITY—Continued.

Weekly morbidity and mortality table, cities of the United States—Continued.

Cities.	Week ended—	Estimated population, 1910.	Total deaths from all causes.	Tuberculosis.		Typhoid fever.		Scarlet fever.		Diphtheria.		Measles.		Whooping cough.	
				Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
Steelton, Pa.	July 9	15,055	0	5		1		2							
Superior, Wis.	do.	42,011	11					10	1	2					
Tacoma, Wash.	July 2	16,411	8					3		3					
Do.	July 9		25							4					
Taunton, Mass.	do.	30,898	14	1								1	1		
Terra Haute, Ind.	July 2	56,409	26		2	1		1				3			1
Do.	July 9		20					1	1			5		1	1
Trenton, N. J.	do.	95,053	8	2	5	3	3	4		1					
Utica, N. Y.	do.	70,911	25	3	4							2		1	
Waltham, Mass.	do.	29,083	6	1	1										
Warren, Pa.	June 11	12,236	0	2								1		3	
Do.	June 18		1									6		1	
Do.	June 25		5		1			1		2					
Do.	July 2		5							1	1				
Do.	July 9		2					1		4	1				
Washington, D. C.	do.	237,044	126	22	10	9	1	5		1		16		27	
Weymouth, Mass.	June 25	11,846	6												
Do.	July 2		2												
Do.	July 9		1												
Wichita, Kans.	do.	52,313	16	1		1	1					3			
Wilkes-Barre, Pa.	do.	65,724	22	3	2			2		2				1	
Wilmington, Del.	do.	90,260	42		2		1								1
Wilkesburg, Pa.	do.	20,884	7									1			
Williamsport, Pa.	do.	30,382	4									4			
Woburn, Mass.	do.	14,550	7					1						2	
Worcester, Mass.	do.	137,849	49	3						9		6	1		
York, Pa.	do.	42,805	2	1	2					2		1		1	
Zanesville, Ohio.	do.	26,042	4	1											

STATISTICAL REPORTS OF MORBIDITY AND MORTALITY, STATES AND CITIES OF THE UNITED STATES (untabulated).

CALIFORNIA.—Month of May, 1910. Population 2,037,929. Total number of deaths from all causes 2,727, including typhoid fever 27, measles 26, scarlet fever 8, diphtheria 18, tuberculosis 454.

FLORIDA—Pensacola.—Month of June, 1910. Population 35,000. Total number of deaths from all causes 36, including typhoid fever 2, tuberculosis 2. Cases not reported.

GEORGIA—Macon.—Month of June, 1910. Population 45,000; white 25,000, colored 20,000. Total number of deaths from all causes 26, including tuberculosis 3 (colored).

ILLINOIS—Bloomington.—Year ending April 30, 1910. Population 26,656. Total number of deaths from all causes 400, including typhoid fever 4, diphtheria 1, tuberculosis 36. Cases reported: Smallpox 2, scarlet fever 48, diphtheria 27.

LOUISIANA—Shreveport.—Month of June, 1910. Population 30,000. Total number of deaths from all causes 75, resident 33, nonresident 42, including typhoid fever 1 (nonresident), pellagra 2 (nonresident), tuberculosis 14.

MASSACHUSETTS.—Week ended April 2, 1910. Population of reporting towns 2,401,701. Total number of deaths from all causes

990, including typhoid fever 5, measles 9, scarlet fever 5, diphtheria 7, tuberculosis 79.

Week ended April 9, 1910. Total number of deaths from all causes 897, including typhoid fever 1, measles 1, scarlet fever 5, diphtheria 8, tuberculosis 65.

Week ended April 16, 1910. Total number of deaths from all causes 830, including typhoid fever 3, measles 7, scarlet fever 6, tuberculosis 95.

Week ended April 23, 1910. Total number of deaths from all causes 802, including typhoid fever 8, measles 7, scarlet fever 7, diphtheria 11, tuberculosis 93.

Week ended April 30, 1910. Total number of deaths from all causes 832, including typhoid fever 5, measles 4, scarlet fever 8, diphtheria 11, tuberculosis 84.

MINNESOTA—*St. Paul*.—Month of March, 1910. Population, 235,000. Total number of deaths from all causes 254, including typhoid fever 3, measles 8, scarlet fever 9, diphtheria 10, tuberculosis 35. Cases reported: Smallpox 5, measles 346, scarlet fever 160, diphtheria 91.

TEXAS—*Fort Worth*.—Month of June, 1910. Population 60,000. Total number of deaths from all causes 104, including typhoid fever 8 (nonresident 4), tuberculosis 11. Cases reported: Smallpox 4, measles 4, scarlet fever 1, diphtheria 1.

UTAH.—Month of March, 1910. Population 346,873. Total number of deaths from all causes 304, including typhoid fever 4, scarlet fever 5, diphtheria 7, tuberculosis 12. Cases reported: Typhoid fever 27, smallpox 112, measles 50, scarlet fever 285, diphtheria 38, tuberculosis 14 (incomplete).

Month of April, 1910. Total number of deaths from all causes, 323, including typhoid fever 6, scarlet fever 18, diphtheria 4, tuberculosis 11. Cases reported: Typhoid fever 15, smallpox 79, measles 17, scarlet fever 244, diphtheria 29, tuberculosis 8 (incomplete).

Month of May, 1910. Total number of deaths 268, including typhoid fever 5, scarlet fever 17, diphtheria 5, tuberculosis 13. Cases reported: Typhoid fever 20, smallpox 64, measles 70, scarlet fever 267, diphtheria 38, tuberculosis 16.

VIRGINIA—*Richmond*.—Month of May, 1910. Population 127,502 (white 80,911, colored 46,591). Total number of deaths from all causes 240 (white 115, colored 125) including typhoid fever 2, measles 14, diphtheria 2, tuberculosis 25 (white 11, colored 14). Cases reported: Typhoid fever 14, measles 822, scarlet fever 5, diphtheria 8.

FOREIGN AND INSULAR.

BARBADOS.

BRIDGETOWN—Inspection and Fumigation of Vessels.

Acting Assistant Surgeon Le Sueur reports, July 2:

Week ended July 2. Bills of health issued to 7 vessels bound for the United States, and having an aggregate of 335 members of crews and 101 passengers. Of these vessels 2 were fumigated. Sanitary condition of vessels, cargoes, crews, and passengers good.

CHINA.

HONGKONG—Plague—Inspection of Vessels.

Passed Assistant Surgeon Foster reports, June 7:

Week ended June 4. Quarantine restrictions enforced by and against Hongkong remain as reported May 28, 1910. One case of plague was reported during the week.

INSPECTION AND DISINFECTION OF VESSELS.

Week ended May 28.

Vessels granted bills of health.....	8
Total members of crews.....	724
Total cabin passengers.....	201
Total steerage passengers.....	174
Members of crews bathed.....	625
Passengers bathed.....	174
Pieces of baggage disinfected.....	799
Vessels disinfected to kill rats.....	1
Crews' quarters disinfected:	
By sulphur.....	
By formaldehyde.....	7

COSTA RICA.

LIMON, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Mengis reports:

Bills of health issued as follows:

WEEK ENDED JUNE 25.

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
1910.					
June 19	San Jose.....	Boston.....	43	2	
19	Jose.....	New Orleans.....	26		
20	Prinz Aug. Wilhelm.....	New York.....	105	100	10
21	Juan.....	Philadelphia.....	28		1
22	Hippolyte Dumois.....	Mobile.....	25		
22	Belvernon.....	Mobile via Bocas.....	20	1	
23	Greenbrier.....	New Orleans.....	46	1	
23	Ellis.....	do.....	29		
24	Heredia.....	New Orleans via Barrios and Belize.	82	22	59

WEEK ENDED JULY 2.

June 25	Esparta.....	Boston.....	43	2	
26	Rosina.....	New Orleans.....	32		
27	Sarnia.....	New York.....	55	2	10
28	Helen.....	Mobile.....	22		
29	Preston.....	New Orleans.....	31		2
30	Bonaventure.....	Mobile.....	27		
July 1	Cartago.....	New Orleans via Barrios and Belize.	78	22	27
2	Juan.....	Mobile.....	24		

YELLOW FEVER AT SAN JOSE.

Doctor Mengis reports, July 10:

Two fatal cases of yellow fever have been reported at San Jose. The last case terminated fatally July 9. The patient is stated to have left Vividez, a locality on the Pacific coast, 10 miles south of Punta Arenas, June 25, for Oratina, where he arrived July 2, sick. He arrived at San Jose July 6 and died July 9. From May 28 to July 10 there have been 3 cases reported, with 2 deaths.

CUBA.**CIENFUEGOS—Inspection of Vessels.**

Acting Assistant Surgeon Suarez reports, July 6:

Week ended July 2. Vessels inspected, 3. Members of crews of outgoing vessels inspected, 52. No quarantinable disease reported.

HABANA—Inspection of Vessels.

Passed Assistant Surgeon de Valin reports, July 6:

Week ended July 2. Bills of health issued, 22. Vessels inspected and passed, 17. Members of crews of outgoing vessels inspected, 974. Passengers of outgoing vessels inspected, 902.

The department of sanitation reports 23,167 houses inspected and 15,196 water deposits petrolized or suppressed during the ten days ended June 30, 1910.

No quarantinable disease was reported during the week ended July 2.

MATANZAS—Inspection of Vessels.

Acting Assistant Surgeon Nuñez reports, July 5:

Week ended July 2. Bills of health issued to 4 vessels leaving for the United States. One vaccination certificate was issued.

The department of sanitation reports the inspection of 4,432 houses during the period from June 10 to 20. No quarantinable disease reported.

SANTIAGO—Inspection of Vessels.

Acting Assistant Surgeon Wilson reports, July 5 and 6:

Week ended June 25. Bills of health issued to 6 vessels bound for the United States. Week ended July 2. Bills of health issued to 5 vessels leaving for the United States. No quarantinable disease reported.

The department of sanitation reported 2,995 houses inspected during the week ended June 25, and 2,874 houses inspected, week ended July 2.

ECUADOR.**GUAYAQUIL—Inspection of Vessels—Yellow Fever.**

Passed Assistant Surgeon Parker reports, June 20:

Week ended June 18. Bills of health issued, 1. Vessels fumigated, 1. Members of crews inspected, 68. Cabin passengers inspected, 20. Steerage passengers inspected, 11. Baggage fumigated, pieces, 25. Baggage inspected and passed, pieces, 32. Certificates for hides issued, 2.

During the period from June 1 to 15, 9 new cases of yellow fever with 8 deaths were reported. No cases of plague were reported.

GUATEMALA.

PUERTO BARRIOS, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Ames reports:
Bills of health issued as follows:

WEEK ENDED JUNE 25.

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
June 20	Parismina.....	New Orleans via Belize...	83	5	10
23	Belize.....	Mobile via Belize.....	18	5	.....
24	Fjell.....	New Orleans via Belize...	19	1	2

Temperature taken of all passengers on day of sailing.

HAWAII.

Last case of human plague at Honolulu occurred June 7, 1910, in an immigrant who had arrived June 3 on the steamship *Nippon Maru*.

The last plague-infected rat was found at Aiea, 9 miles from Honolulu, April 12, 1910.

At Hilo the last case of human plague occurred March 23, 1910.

The last plague-infected rat was found at Pihiuona, 4 miles from Hilo, April 9, 1910.

Passed Assistant Surgeon Ramus reports, June 27:

HONOLULU—Plague-prevention Work.

Week ended June 25, 1910.

Total rats taken.....	730
Trapped.....	712
Found dead (<i>Mus rattus</i>).....	1
Shot from trees.....	17
Examined bacteriologically.....	612
Plague rats.....	0
Classification of rats trapped:	
<i>Mus alexandrinus</i>	54
<i>Mus musculus</i>	342
<i>Mus norvegicus</i>	45
<i>Mus rattus</i>	271
Classification of rats shot from trees:	
<i>Mus alexandrinus</i>	4
<i>Mus rattus</i>	11
Average number of traps set daily.....	1,738

HONDURAS.

PUERTO CORTEZ, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Stowe reports:
Bills of health issued as follows:

WEEK ENDED JULY 5.

Date.	Vessel.	Crew.	Passengers from this port.	Passengers in transit.
June 29	Agnella.....	19	10	.....
30	Navigator.....	19	3	.....
July 1	Viator.....	17	.....	.....
2	Carib II.....	8	.....	.....
3	Viking.....	21	2	.....
5	Harald.....	18	7	.....

No quarantinable disease present.

INDIA.

CALCUTTA—Cholera and Plague.

Acting Assistant Surgeon Allan reports, June 16:

Week ended May 28. At Calcutta 40 deaths from cholera and 46 from plague were reported; in all Bengal, 108 cases of plague with 101 deaths; in all India, 7,399 cases of plague with 6,674 deaths.

Week ended June 11. Bill of health issued to steamship *Planet Mars*, bound for Boston and New York with a total crew of 37 Europeans. The usual precautions were taken, holds fumigated, and rat guards placed on wharf lines.

ITALY.

NAPLES—Examination of Emigrants—Smallpox.

Surgeon Geddings reports, June 27:

Vessels inspected at Naples and Palermo week ended June 25.

NAPLES.

Date.	Name of ship.	Destination.	Steerage passengers inspected and passed.	Pieces of baggage inspected and passed.	Pieces of baggage disinfected.
June 20	San Giovanni.....	New York.....	495	40	270
21	Germania.....	do.....	386	90	520
22	Moltke.....	do.....	955	220	1,280
22	Duca d'Aosta.....	do.....	528	120	1,150
23	Manuel Calvo.....	do.....	249	30	370
23	Mendoza.....	do.....	604	55	620
23	Sicilia.....	do.....			
24	Berlin.....	do.....	787	105	1,100
	Total.....		4,004	660	5,310

PALERMO.

June 23	Duca d'Aosta.....	New York.....	284	300	250
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Rejections recommended.

NAPLES.

Date.	Name of ship.	Tra-choma.	Favus.	Sus-pected tra-choma.	Sus-pected favus.	Small-pox.	Other causes.	Total.
June 20	San Giovanni.....	17	2	7		1	4	31
21	Germania.....	8	2	10			3	23
22	Moltke.....	41	4	15			12	72
22	Duca d'Aosta.....	17	3	14	1		8	43
23	Manuel Calvo.....	13		1				14
23	Mendoza.....	18	4	8			2	32
23	Sicilia.....							
24	Berlin.....	16	1	11	1		5	34
	Total.....	130	16	66	2	1	34	249

PALERMO.

June 23	Duca d'Aosta.....	14		18			6	38
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Smallpox in Naples.—During the week ended June 26, 5 cases of smallpox with 1 death were reported at the health office of the city of Naples.

A case of smallpox was discovered among the steerage passengers embarked at Palermo on board of the steamship *San Giovanni*, of the Sicula American Line, in the person of a child, aged 1 year and 6 months. The patient, together with his mother and brother, was disembarked and sent to the Cotugno hospital for infectious diseases. The contacts in the same compartment on board the vessel, in number 119, were embarked under protest and a foul bill of health was given

JAPAN.

YOKOHAMA—Inspection of Vessels.

Surgeon Irwin reports, June 20:

Week ended June 18. Bills of health issued as follows: Steamships *Manchuria* for San Francisco; *Seattle Maru* for Manila; *Wymeric* for New York, and *Nitto Maru* for Guam. These vessels carried an aggregate of 410 in crews and 142 cabin and 247 steerage passengers.

Typhoid Fever on Japanese Battle Ships.

Surgeon Irwin reports, June 17:

The battle ship *Iwami*, belonging to the first squadron now en route to Ominato, Awomori, for target practice, is expected to arrive at Yokosuka June 16 to transfer 63 cases of typhoid fever to the naval hospital there. The vessel will then proceed to Nagahama for disinfection. The personnel of this ship is 52 officers and 729 crew.

The battle ships *Mikasa* and *Suo* have arrived at Ominato with more than 50 cases of the same disease.

KOBE—Inspection of Vessels—Plague at Osaka.

Acting Assistant Surgeon Moore reports, June 15:

Week ended June 11. Supplemental bills of health granted to 2 steamships and 1 original bill of health to 1 steamship. Members of crews inspected, 235; members of crews bathed, 131 (effects disinfected); pieces of baggage steamed, 271; manifests viséed for 3,252 pieces of freight, amounting to 659 tons; 15 cases of human hair disinfected and 1 case of books; 1 vessel fumigated to destroy vermin.

During the past month 5 cases of plague with 5 deaths were reported at Osaka.

MEXICO.

Report from the Superior Board of Health of Mexico.

In compliance with articles 1 and 2 of the International Sanitary Convention held at Washington October 9-14, 1905, the president of the Superior Board of Health of Mexico reports, July 4 and 11, that no case of yellow fever and no death from the said disease were registered in the Mexican Republic during the weeks ended July 2 and 9, and that the prophylactic measures reported under date of September 28, 1908, continue to be carried out.

COATZACOALCOS—Inspection and Fumigation of Vessels.

Acting Assistant Surgeon Thompson reports, July 6:

Week ended June 29. Vessels inspected: Steamships *Musician* for a port in the United States via Veracruz and Tampico, *Kentuckian* for Delaware Breakwater, *Buenos Aires* for New York via Habana,

Conway for Newport News, and *Texas* for Galveston via Veracruz. These vessels carried an aggregate of 275 in crews and 126 passengers (*Buenos Aires* 123, *Texas* 3). The steamship *Conway* was fumigated before departure.

Week ended July 6. Vessels inspected: Steamship *Honduras* for Mobile, *Oregonian* for Delaware Breakwater, *Asian* for Galveston via Veracruz and Tampico, and *Cayo Gitano* for a port in the United States via Veracruz and Tampico. These vessels carried an aggregate of 134 in crews (crew of *Cayo Gitano* not reported) and 10 passengers per steamship *Asian*. The steamship *Honduras* was fumigated.

PROGRESO—Inspection and Fumigation of Vessels.

Acting Assistant Surgeon Harrison reports, July 5 and 9:

Week ended July 2. Seven vessels inspected. Of these 1 vessel was fumigated. They carried an aggregate of 199 in crews and 17 passengers from Progreso.

Week ended July 8. Two vessels inspected, crews 153, passengers 19. One of the vessels was fumigated.

No quarantinable disease reported.

VERACRUZ—Inspection and Fumigation of Vessels.

Acting Assistant Surgeon Goldthwaite reports, July 4:

Week ended July 2. Vessels inspected 9, of which 5 were fumigated. No quarantinable disease reported in Veracruz or vicinity.

NICARAGUA.

BLUEFIELDS, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Jumel reports:

Bills of health issued as follows:

WEEK ENDED JUNE 28.

Date.	Vessel.	Crew.	Passengers from this port.	Passengers in transit.
June 23	Utstein.....	15	.....	.....
23	P. F. Hope.....	14	7	2
26	Dubuque.....	165	.....	.....
27	Dictator.....	24	7	.....

PANAMA.

BOCAS DEL TORO, Fruit Port—Inspection of Vessels.

Acting Assistant Surgeon Osterhaut reports:

Bills of health issued as follows:

WEEK ENDED JULY 6.

Date.	Vessel.	Destination.	Crew.	Passengers from this port.	Passengers in transit.
June 30	Bellaventure.....	Mobile.....	28	.....	.....
30	Cartago.....	New Orleans.....	78	10	74
July 2	Joseph Vaccaro.....	do.....	33	1	0
3	Fort Morgan.....	Mobile.....	23	0	0
4	Frutera.....	New York.....	26	2	.....
6	Abangarez.....	New Orleans.....	89	22	12

PHILIPPINE ISLANDS.

Passed Assistant Surgeon Heiser, chief quarantine officer for the Philippine Islands, reports May 6, 13, and 20, and June 4:

Status of Cholera in the Islands.

During the week ended May 7 there was a slight increase in cholera in the Provinces. Cases and deaths occurred simultaneously in widely separated places in the provinces of Pangasinan, Pampanga, Batangas, and Union. Immediate steps were taken by the central office of the bureau of health, and a force of trained sanitary officials was sent to the infected centers to assist the local health authorities in coping with the outbreak, as well as to prevent further spread of the disease.

During the week ended May 21 there were reported from the provinces 99 cases, with 94 deaths, as against 110 cases and 79 deaths for the preceding week. The disease, while occurring in widely separated localities, shows but little tendency to spread, and the measures instituted for the eradication and control of the outbreak are proving very effective. This season of the year, when so many religious festivals occur to which thousands of people wend their way by all methods of transportation, and from great distances, is especially favorable for the rapid spread of a disease like cholera, and no doubt that fact may account for the widespread character of the present recurrence of the disease in the provinces mentioned. The outbreak has been particularly severe along the line of the railroad and the nearby villages.

During the latter part of April, cholera made its appearance in the Province of Pangasinan, and the reports received indicated that the islands were threatened with a severe outbreak of cholera similar to that which occurred two years ago. Instead of permitting the local officials to combat it alone, the insular bureau of health at once took charge of the outbreak. Over 300 cases have occurred to date, but the number of cases is gradually becoming less, and so far the infection has not secured a foothold in the adjoining provinces.

In the former outbreak over a thousand cases occurred during a similar period.

It is most satisfactory to report that the municipalities in which the severest outbreaks occurred in former years were almost entirely free from cholera during the present outbreak. This is attributable to the fact that artesian well water has since become available,

Practically all the cholera at present in the Philippine Islands is occurring in the interior, and at present there is practically little or no danger of its being spread by the shipping.

Cholera in Manila.

During the weeks ended April 30 and May 7, 14, and 21, no quarantinable diseases were reported in the city of Manila. During the week ended May 28, 1 case of cholera with 1 death was reported.

Cholera in the Provinces.

WEEK ENDED APRIL 30.

Provinces.	Cases.	Deaths.
Pampanga.....	3	4
Pangasinan.....	19	16
Total.....	22	20

WEEK ENDED MAY 7.

Batangas.....	1	1
Bulacan.....	5	12
Pampanga.....	12	43
Pangasinan.....	57	1
Union.....	1	
Total.....	76	57

WEEK ENDED MAY 14.

Bulacan.....	9	6
Pampanga.....	16	14
Pangasinan.....	84	58
Tarlac.....	1	1
Total.....	110	79

WEEK ENDED MAY 21.

Bulacan.....	8	6
Pampanga.....	18	31
Pangasinan.....	73	57
Total.....	99	94

WEEK ENDED MAY 28.

Bulacan.....	14	11
Pampanga.....	14	9
Pangasinan.....	100	61
Union.....	1	
Total.....	129	81

Inspection of Vessels.

Week ended April 30. April 25 the Norwegian steamship *Henrik Ibsen*, with 38 in crew, granted a bill of health for Portland via Moji and other Japan ports. Cargo inspected prior to loading and manifests signed. Entire personnel inspected at hour of sailing. April 27 the British steamship *River Clyde*, with 34 in crew, granted a bill of health for Seattle via Hongkong, and China and Japan ports. Cargo inspected and manifests viséed. Personnel inspected at hour of departure.

Week ended May 7. May 4 the British steamship *Harlow*, with 28 in crew, en route from Iloilo to New York, granted a supplemental bill of health. Manifests for cargo loaded at this port viséed. Entire personnel inspected and passed at hour of sailing. May 4 the British

steamship *Inveresk*, with 62 in crew, granted a bill of health for Boston and New York via Cebu. Holds and forecastles fumigated for 12 hours while in this port. May 6 the American steamship *Minnesota*, with 279 in crew, and 170 cabin and 107 steerage passengers, en route from Hongkong to Seattle, granted a supplemental bill of health. Personnel inspected prior to sailing. Steerage passengers' effects disinfected. May 6 the British steamship *Frankby*, with 38 in crew, en route from Newcastle to New York via Cebu, granted a supplemental bill of health. No cargo was loaded at this port.

Week ended May 14. May 11 the American steamship *Siberia*, with 281 in crew, and 108 cabin and 212 steerage passengers, granted a bill of health for San Francisco via Hongkong and Japan ports. Manifests for cargo loaded at this port viséed. May 11 the British steamship *Oanfa*, with 86 in crew, en route from London to Seattle and Tacoma, granted a supplemental bill of health. Manifests for cargo loaded at this port viséed. Entire personnel inspected and passed at hour of sailing.

Week ended May 21. May 16 the British steamship *Euston*, with 29 in crew, en route from Hongkong to Boston via Cebu, granted a supplemental bill of health. Holds and forecastles fumigated while in this port. Manifests signed. Personnel inspected before sailing.

Week ended May 28. May 23 the British steamship *Sungkiang*, with 63 in crew and 38 cabin and 60 steerage passengers, en route from Hongkong to Cebu and Iloilo, granted a supplemental bill of health. May 24 the British steamship *Schuylkill*, with 51 in crew, en route from Shanghai to New York via Singapore, granted a supplemental bill of health. Crew bathed and their effects disinfected upon arrival at this port. May 25 the British steamship *Oceano*, with 74 in crew and 12 passengers, granted a bill of health for Seattle via Hongkong, Shanghai, and Japan ports. Manifests for cargo loaded at this port viséed. Entire personnel inspected and passed at hour of sailing.

RUSSIA.

Status of Cholera.

Chargé d'Affaires Wheeler at St. Petersburg reports, June 15, 24, and 27, through the Department of State:

From May 29 to June 4 there were 284 cases of cholera and 121 deaths reported in Russia, distributed according to locality as follows:

Government.	Cases.	Deaths.
Mohilev	3	2
Kief	27	5
Ekaterinoslav	165	84
Kharkov	3	3
Poltava	9	3
Taurida	15	6
Territory of the Don	28	9
Baku	4	3
Kherson	23	2
Tchernigoff	6	3
Minsk	1	.....
City of Odessa .....	.....	1

During the period from June 5 to 11 there occurred 745 cases with 268 deaths, distributed as follows:

Government.	Cases.	Deaths.
Katerinoslav.....	188	77
Tchernigov.....	35	14
Minsk.....	5	2
Taurida.....	32	14
Kherson.....	74	25
Kharkov.....	32	15
Mohilev.....	7	6
Poltava.....	44	7
Kief.....	79	25
Vitebsk.....	2	.....
Territory of the Don.....	239	79
Baku.....	4	3
Besserabia.....	1	.....
City of Odessa.....	3	1

The city of Kherson was declared to be infected by cholera.

From June 12 to 18, 2,054 cases of cholera were reported, with 759 deaths, as follows:

Government.	Cases.	Deaths.
Katerinaslov.....	370	154
Tschernigov.....	93	44
Minsk.....	6	1
Taurida.....	51	11
Kherson.....	56	13
Kharkov.....	119	65
Mohilev.....	3	.....
Poltava.....	58	19
Kief.....	75	14
Vitebsk.....	5	.....
Baku.....	2	.....
Orel.....	2	1
Voronech.....	1	1
Don territory.....	1,031	344
Kuban territory.....	168	85
City of Odessa.....	13	7

Under date of June 25 Acting Assistant Surgeon De Forest, at Libau, reported 2 cases of cholera with 2 deaths at St. Petersburg for the week ended June 24, and that cholera had broken out along the chief division of the Trans-Caspian Railway.

LIBAU—Smallpox—Examination of Emigrants.

Acting Assistant Surgeon De Forest reports, June 25:

During the week ended June 19, 5 cases of smallpox, with 1 death, were reported at Libau. Twenty-four cases remain under treatment. On account of the large number of smallpox cases now present and the practical presence of the disease at Libau during the entire year all passengers by the Russian-American line have been required since May 10 to be vaccinated prior to embarkation. The results, as observed at the sailing of the last vessel, showed that only about 1 case in 30 persons vaccinated failed to take.

The steamship *Lituania* sailed from Libau June 22 with 914 passengers and a crew of 100. All had been in Libau for five days under observation.

ODESSA—Status of Cholera.

Consul Grout reports, June 27:

In Odessa from June 10 to 20 there were 17 cases of cholera, with 8 deaths, leaving 9 cases in hospital.

At Rostov on Don cholera has been rapidly increasing since June 19, about 200 new cases occurring daily. The death rate is low, being about 25 or 30 per cent. The majority of the persons attacked are of the laboring class, mostly workmen employed at the river quays and upon buildings in course of erection. On June 20, 708 cases, with 197 deaths, were reported. On this date, June 27, 1,000 cases are reported present. Scattered cases of cholera have occurred in all the towns and villages near Rostov on Don.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX.

Reports Received During Week Ended July 22, 1910.

[These tables include cases and deaths recorded in reports received by the Surgeon-General, Public Health and Marine-Hospital Service, from American consuls through the Department of State and from other sources.

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Swatow.....	June 1-6.....		4	
India:				
Bombay.....	June 8-14.....		1	
Calcutta.....	May 22-28.....		40	
Negapatam.....	May 7-13.....		11	
Rangoon.....	May 29-June 4.....		2	
Java:				
Batavia.....	May 29-June 4.....	5	3	
Samarang.....	May 22-June 4.....	95	80	
Philippine Islands:				
Manila.....	May 22-28.....	1	1	
Provinces—				
Batangas.....	May 1-7.....	1		
Bulacan.....	May 1-28.....	36	24	
Pampanga.....	Apr. 24-May 28.....	63	70	
Pangasinan.....	Apr. 24-May 28.....	333	235	
Tarlac.....	May 8-14.....	1	1	
Union.....	May 1-28.....	2	1	
Russia, general.....				May 8-18, cases 3,344, deaths 1,260.
Baku, government.....	May 29-June 18.....	10	6	
Bessarabia.....	June 5-11.....	1		
Don, territory.....	May 29-June 18.....	1,298	432	
Ekaterinislav, government.....	May 29-June 18.....	723	315	
Kharkov, government.....	May 29-June 18.....	154	83	
Kherson, government.....	May 29-June 18.....	153	40	June 18-20, fatal case on steamship <i>Colenzo</i> .
Odessa.....	May 29-June 18.....	16	9	
Kief, government.....	May 29-June 18.....	181	44	
Kuban, government.....	May 29-June 18.....	168	85	
Minsk, government.....	May 29-June 18.....	12	3	
Mohilev, government.....	May 15-28.....	2	1	
Orel, government.....	May 29-June 18.....	13	8	
St. Petersburg, government.....	May 30-June 18.....	2	1	
St. Petersburg.....				June 19-25, cases 4, deaths 1.
Poltava, government.....	May 29-June 18.....	111	29	
Taurida, government.....	May 29-June 18.....	98	31	
Kertsch.....	May 29-June 18.....	1		
Tschernigov.....	May 29-June 18.....	134	61	
Vitebsk, government.....	May 29-June 18.....	7		
Voroneg, government.....	May 29-June 18.....	1	1	
Siam:				
Bangkok.....	May 4-24.....	487	480	
Straits Settlements:				
Singapore.....	May 22-28.....	13	11	

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received During Week Ended July 22, 1910—Continued.

YELLOW FEVER.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Para.....	June 19-25.....	11	9	
Costa Rica:				
San Juan.....	July 2-9.....	1	2	
Sierra Leone:				
Freetown.....	June 1-8.....	1	1	

PLAGUE.

Brazil:				
Pernambuco.....	Apr. 1-15.....		1	
China:				
Hongkong.....	May 22-June 4....	3	2	
Swatow.....	June 1-6.....			Present in vicinity.
India:				
Bombay.....	June 8-14.....		72	
Calcutta.....	May 22-28.....		46	
Kurrachee.....	June 5-11.....	51	48	
Rangoon.....	May 29-June 4....		41	
Japan:				
Formosa.....	June 5-11.....	5	3	
Osaka.....	May 1-31.....	5	5	
Persia:				
Bouchir.....	Apr. 29-June 4....	44	36	
Rhodes:				
Aplakia.....	May 22-28.....			Present.
Siam:				
Bangkok.....	Apr. 25-May 24....	3	3	
Straits Settlements:				
Singapore.....	May 22-28.....	1	1	
Trinidad.....	July 14.....	1	1	

SMALLPOX.

Abyssinia:				
Adis Ababa.....	May 16-28.....			Present.
Brazil:				
Para.....	June 19-25.....	2	2	
Pernambuco.....	Mar. 16-Apr. 30....		161	
Canada:				
Halifax.....	June 26-July 2....	2		
Sydney.....	July 3-9.....	10		
Chile:				
Chillan.....	May 14.....		(a)	Epidemic.
Victoria.....	May 14.....			Do.
China:				
Canton.....	May 22-28.....	5		
Chefoo.....	June 5-11.....			Present.
Shanghai.....	June 6-12.....	1	3	Cases among foreigners, deaths among natives.
Swatow.....	June 6.....			Present.
Germany, general.....	June 19-25.....	1		
Gibraltar.....	June 20-July 3....	2		
Great Britain:				
London.....	June 19-25.....	3		
India:				
Bombay.....	June 8-14.....		14	
Madras.....	June 4-10.....		2	
Rangoon.....	May 29-June 4....		2	
Italy, general.....	June 20-26.....	36		
Naples.....	June 20-26.....	5	1	June 26—One case from s. s. San Giovanni.
Korea:				
Seoul.....	May 26-June 4....	2	1	
Mexico:				
Aguascalientes.....	June 26-July 9....		4	
Guadalajara.....	June 26-July 2....		2	
Mexico.....	June 5-11.....		1	
San Luis Potosi.....	June 19-25.....	1	1	
Portugal:				
Lisbon.....	June 19-25.....	45		

a From the Veröffentlichungen des Kaiserlichen Gesundheitsamtes, June 29, 1910.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received During Week Ended July 22, 1910—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Russia:				
Libau.....	June 20-26.....	22	2	
Moscow.....	June 12-18.....	12	8	
Riga.....	June 19-25.....	22		
St. Petersburg.....	June 12-18.....	35	12	
Siberia:				
Vladivostok.....	May 22-28.....	1		
Spain:				
Barcelona.....	June 21-July 4.....		2	
Valencia.....	June 19-25.....	3		
Straits Settlements:				
Singapore.....	May 22-28.....	8	2	
Penang.....	May 29-June 4.....	1		
Turkey in Asia:				
Basra.....	June 5-11.....			Present.

Reports Received from June 23 to July 15, 1910.

[For reports received from January 1, 1910, to June 24, 1910, see PUBLIC HEALTH REPORTS for June 24, 1910. In accordance with custom, the tables of epidemic diseases are terminated semiannually and new tables begun.]

CHOLERA.

Place.	Date.	Cases.	Deaths.	Remarks.
China:				
Swatow.....	May 10-23.....		250	In vicinity from 3,000 to 4,000 deaths.
Germany:				
Berlin.....	June 23-27.....			Two deaths at Ruhlenben inspection station among Russian emigrants.
India:				
Calcutta.....	May 1-21.....		195	
Madras.....	May 21-27.....		1	
Moulmine.....	May 1-7.....	1	1	
Negatapam.....	Apr. 16-May 6.....		44	
Rangoon.....	May 8-28.....		5	
Java:				
Batavia.....	May 8-28.....	12	9	
Samarang.....	May 8-21.....	92	72	
Soerabaya.....	May 8-21.....	27	11	
Russia, general.....				From the beginning of the epidemic in May to June 16, cases 1,491, deaths 573.
Straits Settlements:				
Singapore.....	May 8-21.....	15	17	

YELLOW FEVER.

Brazil:				
Manaos.....	May 30-June 11.....		3	
Para.....	May 30-June 18.....	20	13	
Costa Rica:				
San Jose.....	May 28-June 29.....	2		Case May 28 from Barranquilla. Case June 29 from Siquires.
Ecuador:				
Guayaquil.....	May 16-June 15.....	30	16	
Gold Coast:				
Sekondi.....	May 1-27.....	8	8	
Sierra Leone:				
Freetown.....	May 1-31.....	3	3	
Sherboro.....	May 20.....			Present.

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from June 25 to July 15, 1910—Continued.

PLAGUE.

Place.	Date.	Cases.	Deaths.	Remarks.
Chile:				
Iquique.....	May 8-June 4.....	19	7	
China:				
Amoy.....	May 8-31.....			From 10 to 15 deaths daily. Mainly at Ho Peng. Present also at Chelin, Feng-chow-so, Taipushien, and Tsai-tang-shi.
Chao Yang district.....	May 5-19.....		3,000	
Hankow.....	May 15-28.....	2	1	
Hongkong.....	May 8-14.....	2		
Ecuador:				
Guayaquil.....	May 16-31.....	2		
Egypt:				
Alexandria.....	May 24-June 8....	2	1	
Port Said.....	June 14.....	2		
Provinces—				
Assiout.....	May 26-June 16....	11	7	
Assouan.....	Apr. 30-June 8....	2	1	
Beni Souef.....	May 27-June 12....	6	5	
Gallioobeeh.....	May 21-June 5.....	4		
Garbieh.....	May 14-June 14....	13	4	
Fayoum.....	May 28-June 16....	16	10	
Kena.....	May 27-June 15....	23	21	
Menouf.....	May 24-June 13....	83	13	
India:				
Bombay.....	May 18-June 7.....		373	
Calcutta.....	May 1-21.....		240	
Kurrachee.....	May 15-28.....	118	113	
Rangoon.....	May 8-28.....		80	
Bombay Presidency and Sind.....	May 1-14.....	985	868	
Madras Presidency.....	May 1-14.....	38	15	
Bengal.....	May 1-14.....	626	567	
United provinces.....	May 1-14.....	3,660	3,445	
Punjab.....	May 1-14.....	16,810	14,654	
Burma.....	May 1-14.....	348	340	
Central provinces, includ- ing Berar.....	May 1-14.....	118	82	
Mysore State.....	May 1-14.....	18	12	
Hyderabad State.....	May 1-14.....	5	2	
Central India.....	May 1-14.....	9	7	
Rajputana and Ajmer-Mer- wara.....	May 1-14.....	4,650	4,286	
Baluchistan.....	May 1-14.....	54	46	
Grand total.....		27,321	24,324	
Japan:				
Formosa.....	May 8-28.....	5	4	
New Zealand:				
Auckland.....	May 23.....	1		
Peru:				
Arequipa Department— Mollendo.....	May 16.....			Present.
Callao Department— Callao.....	May 12-19.....	2		Case May 12 from s. s. Victoria; case May 19 from s. s. Nicarie.
Straits Settlements:				
Singapore.....	May 8-21.....	2	2	
Trinidad:				
Port of Spain.....	May 15-21.....	1	1	
Turkey in Asia:				
Lohela.....	May 1-24.....	25	27	And vicinity.

SMALLPOX.

Argentina:			
Buenos Aires.....	Feb. 1-28.....		70
	Mar. 1-31.....		71
Algeria:			
Bona.....	May 1-31.....	1	1
Australia:			
Victoria, general.....	Apr. 3-19.....	1	1
Austria:			
Galicia.....	May 29-June 4....	3	

CHOLERA, YELLOW FEVER, PLAGUE, AND SMALLPOX—Continued.

Reports Received from June 25 to July 15, 1910—Continued.

SMALLPOX—Continued.

Place.	Date.	Cases.	Deaths.	Remarks.
Brazil:				
Para.....	May 29-June 18...	16	3	
Pernambuco.....	Apr. 16-30.....		46	
Santos.....	May 22-29.....		6	
Canada:				
British Columbia—				
Fernie.....	June 12-25.....	4		
Nova Scotia—				
Halifax.....	June 14-25.....	6		
Pictou.....	June 12-25.....	7	1	
Ontario—				
Toronto.....	June 5-11.....	1		
Chile:				
Valparaiso.....	May 19.....	4		
China:				
Canton.....	May 8-21.....	4		
Hongkong.....	May 8-21.....	2		
Nanking.....	May 7.....			
Shanghai.....	May 22-June 5.....	2	13	Present. Cases among foreigners, death : among natives. 2
Egypt, general.....	Apr. 30-May 13.....	130	30	
Cairo.....	May 21-27.....	4	2	
Suez.....	May 21-27.....	1		
France:				
Paris.....	May 29-June 18.....	17		
Germany, general.....	May 29-June 18.....	10		
Hamburg.....	June 5-11.....	1		
Great Britain:				
South Shields.....	May 22-June 4.....	4	1	
India:				
Bombay.....	May 18-27.....		66	
Kurrachee.....	May 15-28.....	7	3	
Madras.....	May 14-June 3.....		3	
Rangoon.....	May 8-28.....		27	
Italy, general.....	May 30-June 19.....	19		
Naples.....	May 30-June 19.....	34	7	
Japan:				
Formosa.....	May 22-28.....	1	1	
Java:				
Batavia.....	May 22-28.....	1		
Korea:				
Fusan.....	May 1-7.....	1		
Malta.....	May 22-28.....	1		
Mexico:				
Aguascalientes.....	June 5-25.....		16	
Guadalajara.....	June 11-17.....		4	
Mexico.....	May 15-June 4.....		6	
San Luis Potosi.....	May 29-June 18.....	6	3	
Portugal:				
Lisbon.....	May 29-June 18.....	95		
Russia:				
Liban.....	May 30-June 18.....	81	5	
Moscow.....	May 22-June 11.....	45	14	
Odessa.....	May 22-June 11.....	36	5	
Riga.....	May 29-June 18.....	42		
St. Petersburg.....	May 8-June 11.....	202	67	
Warsaw.....	Mar. 6-26.....		52	
Siberia:				
Vladivostok.....	Apr. 22-28.....	1		
Spain:				
Barcelona.....	May 31-June 20.....		5	
Cadiz.....	May 1-31.....		1	
Madrid.....	May 1-31.....		3	
Seville.....	May 1-31.....		2	
Vigo.....	June 12-18.....		1	
Straits Settlements:				
Singapore.....	May 8-21.....	10	6	
Uruguay:				
Montevideo.....	Apr. 1-30.....	162	64	

MORTALITY.

WEEKLY MORTALITY TABLE, FOREIGN AND INSULAR CITIES.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—										
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Agua Calientes.....	July 2	40,000	63					2			2			
Do.....	July 9		77	1				2						3
Aix-la-Chapelle.....	June 18	162,100	51	3							2	1		
Amsterdam.....	June 25	570,149	125	16					1				3	1
Do.....	July 2		111	14						2			2	
Athens.....	June 25	250,010	83	18						6				
Barcelona.....	June 27	591,272	370	22				1				3	18	3
Do.....	July 4		280	15				1		7			10	1
Barmen.....	June 18	164,400	32	5							1			
Barranquilla.....	do.....	40,000	16	1						3			1	
Do.....	June 25		18	1						3				
Batavia.....	June 4	217,630				3								
Belfast.....	June 25	391,167	157	31						1			36	1
Birmingham.....	July 2	870,113	122								1	1		5
Bradford.....	June 25	295,865	72	2						1	1	2	2	
Bristol.....	July 2	382,550	73	4						1				3
Bombay.....	June 14	977,822	585	38	72	1		14		2			2	1
Bremen.....	June 25	235,648	64						1			2	12	8
Do.....	July 2		58	12									5	
Brussels.....	June 25	720,632	180	18						1		2	2	2
Budapest.....	June 19	950,610									4	1	6	3
Do.....	June 26									4	6	1	4	
Cairo.....	June 10		632	32					4	10		10	28	
Calcutta.....	May 28	677,663	381	39	46	40							1	
Canton.....	do.....	1,000,000	125	5						3		1		1
Chemnitz.....	June 25	283,880	66	10							1			
Chihuahua.....	July 3	37,000	56										15	
Do.....	July 10		52	6							1	1	6	
Christiania.....	June 28	250,000	49	8								1		
Do.....	July 2		62	9										2
Cologne.....	June 25	513,095	147	16									9	2
Colombo.....	June 4	187,594	121	17						5				
Do.....	June 11		103	11						5				
Colon.....	June 25	16,000	11	1						1			1	
Constantinople.....	June 26	1,000,000	192	32						5	2		1	
Copenhagen.....	June 18	455,000	146	19							4		2	2
Dalny.....	do.....	41,724	36	1						1				
Dresden.....	do.....	553,600	137	25							1	1		1
Dublin.....	do.....	394,525	140	37						2			1	1
Do.....	June 25		130	34					1					2
Dundee.....	July 2	170,276	72	8								1	4	4
Durango.....	July 3	75,000	97	2					1		1		17	
Edinburgh.....	June 25	360,276	92	15							3	1	2	
Frankfort.....	do.....	406,000	99								1	1		3
Fusan.....	May 28	38,884								3		1		
Georgetown.....	June 18	56,000	56	9					1					
Glasgow.....	July 1	872,021	218							1	5	6	4	7
Gothenberg.....	June 25	164,000	36	7								1	1	
Gadalajara.....	July 1	125,000	94					3		4				
Halifax.....	July 2	50,000	26	3							1			
Hamburg.....	June 25	895,804	214	33						2	1	8	7	1
Hilo.....	do.....	3,500	7	2						1				
Hongkong.....	May 28	336,488			2									
Hull.....	June 25	280,006	64										4	1
Do.....	July 2		53									1	2	1
Johannesburg.....	May 28	180,687	150	16						11			1	2
Do.....	June 11		169	18						5			2	
Konigsberg.....	June 25	244,200	76	6						1	2		1	
Kurrachee.....	June 11	130,000	111		48									
Leeds.....	July 2	490,985	123	11									3	4
Leipzig.....	June 25	590,329	122	17							1			
Leith.....	do.....	86,767	23	2							1			
Libau.....	June 26	90,000					2				5			
London.....	June 25	7,537,196	1,403							1		2	44	36
Lubeck.....	do.....	96,000	27	6									1	
Madras.....	June 10	550,000	334				2						4	
Manchester.....	June 25	631,533	194	13						5	2	1	10	21
Mexico.....	June 11	500,000	391	29			1	16				1	17	1

MORTALITY—Continued.

Weekly mortality table, foreign and insular cities—Continued.

Cities.	Week ended—	Estimated population.	Total deaths from all causes.	Deaths from—										
				Tuberculosis.	Plague.	Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Monterey.....	July 3	100,000	88	5						3			4	
Do.....	July 10		85	4						1	2		5	
Montreal.....	June 18	530,000	188	17								3	1	6
Do.....	July 9		247	11								2	3	5
Moscow.....	do.	1,500,000	1,186	77				8	2		16	30	19	5
Munich.....	June 25	576,000	159	30								1	1	1
Naples.....	do.	593,729	293					1						
Do.....	July 2		302					3						
Nottingham.....	June 25	260,000	59										2	3
Nuremberg.....	June 18	323,500	89	12							1			
Para.....	June 25	185,000	100	7			9			2			2	
Penang.....	May 28	103,582	71	14						1				
Do.....	June 4		67	6						1				
Port Said.....	June 10	53,711	40	2				1				1		
Prague.....	June 25	233,344	63	21						1			1	1
Rotterdam.....	July 2	421,388	107									1		
St. Petersburg.....	June 18	1,678,000	996	14				12	2	17	15	22	73	4
Salina Cruz.....	July 2	4,500	6							1				
San Luis Potosi.....	June 25	82,479	76	4				1			1	2	3	2
Do.....	July 2		53	4							1		1	1
Santa Cruz de Tenerife.....	June 25	46,000	20	1							4	2		
Seoul.....	June 4	38,884						1	1					
Shanghai.....	June 12	565,000	164	14				3				1		
Singapore.....	May 28	271,060	223	22	1	11				1				
Stockholm.....	June 25	239,000	83	7						1				1
Do.....	June 11	341,816	100	13							1		1	
Turin.....	July 1	391,968	99	21							6	4		
Valencia.....	June 25	240,000	122	11						1		3		1
Venice.....	June 4	183,224	102	13						1		1	1	
Do.....	June 11		58	2						8				
Do.....	June 18		76	6						3	1		1	1
Do.....	June 25		55	5						3	13			
Vigo.....	do.	40,000	62	4						2	12	1	1	
Vladivostok.....	June 4	90,162	16	4						1				
Winnipeg.....	July 9	135,000	23	3										
Yokohama.....	June 27	407,432	98								1			

MORTALITY—FOREIGN AND INSULAR—COUNTRIES AND CITIES (untabulated).

ARGENTINA—*Rosario*.—Month of April, 1910. Population 192,278. Total number of deaths from all causes 296, including typhoid fever 20, measles 2, diphtheria 7, tuberculosis 38.

BERMUDA—*Hamilton*.—Two weeks ended June 27, 1910. Population 20,206. Total number of deaths from all causes 9. No contagious diseases reported.

BRAZIL—*Pernambuco*.—Two weeks ended April 15, 1910. Population 210,000. Total number of deaths from all causes 367, including typhoid fever 2, smallpox 53, plague 1, tuberculosis 51.

Two weeks ended April 30, 1910. Total number of deaths 359, including smallpox 46, tuberculosis 54.

CANADA—*Hamilton*.—Month of June, 1910. Population 70,000. Total number of deaths from all causes 89, including scarlet fever 1, diphtheria 2, tuberculosis 6.

Sherbrooke.—Month of June, 1910. Population 15,300. Total number of deaths from all causes 27, including diphtheria 1, tuberculosis 7.

CHILE—*Punta Arenas*.—Month of May, 1910. Population 12,000. Total number of deaths from all causes 28, including tuberculosis 2.

FORMOSA.—Month of May, 1910. Population 3,123,335. Total number of deaths from all causes not reported. Eight deaths from typhoid fever, 3 from diphtheria, and 7 from plague reported.

FRANCE—*St. Etienne*.—Two weeks ended June 15, 1910. Population 150,000. Total number of deaths from all causes 110, including typhoid fever 1, measles 3, diphtheria 1, tuberculosis 21.

GREAT BRITAIN.—Week ended June 18, 1910.

England and Wales.—The deaths registered in 77 great towns correspond to an annual rate of 11.1 per 1,000 of the population, which is estimated at 16,940,895.

Ireland.—The deaths registered in 21 principal town districts correspond to an annual rate of 18.9 per 1,000 of the population, which is estimated at 1,151,790. The lowest rate was recorded at Queens-town, viz, 6.6, and the highest at Lurgan, viz, 35.4, per 1,000.

Scotland.—The deaths registered in 8 principal towns correspond to an annual rate of 13.9 per 1,000 of the population, which is estimated at 1,865,571. The lowest rate was recorded at Edinburgh, viz, 10.4, and the highest in Greenock, viz, 20.5. The total number of deaths from all causes was 503, including typhoid fever 1, measles 15, scarlet fever 2, diphtheria 3.

ITALY—*Genoa*.—Two weeks ended June 15, 1910. Population 279,163. Total number of deaths from all causes 199, including typhoid fever 1, measles 1, tuberculosis 26.

MARTINIQUE—*Fort de France*.—Two weeks ended June 18, 1910. Population 27,069. Total number of deaths from all causes 32. No contagious diseases reported.

MEXICO—*Progreso*.—Month of April, 1910. Population 5,175. Total number of deaths from all causes 11, including typhoid fever 2, tuberculosis 4.

Month of May, 1910. Total number of deaths 12, including tuberculosis (pulmonary) 1.

SPAIN—*Madrid*.—Month of May, 1910. Population 595,000. Total number of deaths from all causes 1,110, including typhus fever 17, typhoid fever 6, smallpox 3, measles 7, scarlet fever 3, diphtheria 4, tuberculosis 173.

Malaga.—Month of April, 1910. Population 135,000. Total number of deaths from all causes 372, including typhoid fever 1, diphtheria 4, tuberculosis 25.

Seville.—Month of May, 1910. Population 154,315. Total number of deaths from all causes 438, including typhoid fever 8, smallpox 2, measles 2, scarlet fever 2, diphtheria 5, tuberculosis 50.

By authority of the Secretary of the Treasury:

WALTER WYMAN,

Surgeon-General,

United States Public Health and Marine-Hospital Service.